

Inventor(s)

Davi Geiger et al.

Serial No.

: 09/666,371

Filed

September 20, 2000

Entitled

METHOD AND APPARATUS FOR SEGMENTING AN IMAGE

IN ORDER TO LOCATE A PART THEREOF

Group Art Unit

2674

Examiner

Abbas L. Abdulselam

I hereby certify that this document is being deposited with the United States Postal Service as First Class Mail addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on this 18th day of February, 2005.

Gary Abelev, Reg. No. 40,479 (Signature)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached Form PTO 1449, and respectfully request that the listed documents be considered by the Examiner and made of record in the above-captioned application. Copies of the patent references listed on the Form PTO-1449 are enclosed, except that U.S. patent references are not enclosed.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies the documents as prior art against any claim in the

035431/US - 475396-00006 PATENT

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application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the Office the relevant facts and law

regarding the appropriate status of the documents.

Applicants further reserve the right to take appropriate action to establish the

patentability of the disclosed invention over the listed documents, should the documents be

applied against the claims of the present application.

This submission is being filed after the final office action for this application. In

addition, applicants confirm that no item of information contained in the information disclosure

statement was cited in a communication from a foreign patent office in a counterpart foreign

application, and, to the knowledge of the person signing the certification after making reasonable

inquiry, no item of information contained in the information disclosure statement was known to

any individual designated in § 1.56(c) more than three months prior to the filing of the

information disclosure statement. Therefore, applicants are enclosing herewith a requisite fee of

\$180 pursuant to 37 C.F.R. § 1.97(d) in connection with the submission of this paper. If any

additional fee is due, or if any overpayment has been made, the Commissioner is authorized to

charge any such fee or credit any overpayment, to our Deposit Account No. 50-2054.

Respectfully submitted,

DORSEY & WHITNEY, LLP

Gary Abelev

PTO Reg. No. 40,479

Attorneys for Applicants

(212) 415-9371

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			Laurent D. Cohen, On active contour models and balloons. Computer Vision, Graphics and Image Processing: Image Understanding, 53(2): 211-218, 1991 Laurent D. Cohen and Isaac Cohen, "Finite element methods for active contour models and balloons for 2-d												
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			mot	tion c		nsatio					and Alok Gupta, "Op nternational Conferer				
			L. F	Ford a	ınd D.	Fulk	erson,	, Flow	s in Netwo	orks, Prince	ton University Press,	, 1962.		-	

Examiner Date Considered

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office FEB 2 2 2005	Atty. Docket No. 035431/US – 475396-00006	Serial No. 09/666,371									
INFORMATION DISCLOSURE TATEMENT BY APPLICANT	Applicant(s) Davi Geiger et al.										
(Use several sheets if necessary)	Filing Date September 20, 2000	Group 2674									
Davi Geiger, Alok Gupta, Luiz A. Costa, a tracking, and matching deformable contou Intelligence, 17(3): 294-402, March 1995.											
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9,	D. Greig, B. Porteo-ancl A. Seheult. Exact maximum a posterior estimation for binary images, Journal of the Royal Statistical Society, Series B, 51(2):271-279, 1989.										
Robert M. Haralick and Linda G. Shapiro, Company, 1992.	Robert M. Haralick and Linda G. Shapiro, Computer and Robot Vision, Addison-Wesley Publishing Company, 1992.										
	H. Islilkawa and D. Geiger, "Segmentation by grouping junctions," In IEEE Conference on Computer Vision and Pattern Recognition, pages 125-131, 1998.										
	Ian H. Jermyn and Hiroshi Ishikawa, "Globally optimal regions and boundaries," In International Conference on Computer Vision, volume II, pages 904-910, 1999.										
M. Kass, A. Witkin, and D. Terzolpoulos, Computer Vision, 2:321-331, 1988.	M. Kass, A. Witkin, and D. Terzolpoulos, Snakes: Active contour models. International Journal of Computer Vision, 2:321-331, 1988.										
	Snow et al. "Exact voxel occupancy with graph cuts", Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition, vol. 1, June 2000, Pages 345-352.										
Bonneville et al. "Graph cut: application to the International Conference on Image An											
Prosecution history for Application No. 09	0/943,035 by Boykov, filed August 30,	2001.									

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Examiner Date Considered

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FEB 2 2 2005

Firm

Individual name
Signature
Date

DORSEY & WHITNEY, LLP

February 18, 2005

Gary Abelev, Esq. (Reg No. 40,479)

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	Inderthe Paperwork Reduction Act of 1995	no persons	Application Number		n of information unless it displays a valid OMB control number. 09/666,371				
	TRANSMITTAL		Filing Date	Septe	ember 20, 2000				
	FORM		First Named Inventor	Davi	Geiger et al.				
(to	be used for all correspondence after initial	filing)	Art Unit 2674		74				
			Examiner Name	Abba	s L. Abdulselam				
Tot	al Number of Pages in This Submission		Attorney Docket Number	0354	31/US - 475396-00006				
		ENCI	LOSURES (Check all the	at apply)					
	Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/		Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Add Terminal Disclaimer Request for Refund CD, Number of CD(s)	Iress	After Allowance communication to Technology Center (TC) Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below): Form PTO 1449 with 17 references and Receipt Postcard				
	Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53								

CERTIFICATE OF TRANSMISSION/MAILING											
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.											
Typed or printed name	Gary Abelev, Esq.										
Signature	Date February 18, 2005										

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on 12/08/04	<u> </u>	Complete if Known						
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		Examine	r Name	Abbas L.	Abbas L. Abdulselam			
Applicant claims small entity sta	atus (see 37 C.F.R. 1.27)	Atty. Doc	ket Numb	per 035431/U	S - 475396-0000	6		
METHOD OF PAYM	ENT (Check One)	FEE CALCULATION (Continued)						
⊠ Check ☐ Credit Car	rd Money Order			3. ADDITION	IAL FEES			
Deposit Account No.: 50-2054	0 1441171171171	Large Entity	Small Entity	Fee Description		Fee paid		
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Other (please identify):		180	180	Submission of IDS 180				
Extra Clair	m Fees	40	40	Recording each patent assignment per property (times number of properties)				
Current Claims Prior Extr Total 60 - 60 =	ra Fee Fee Paid 0 x \$ = \$	120	60	Extension for reply	. , , .			
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Petition Fee Under 37 C	CFR 1.17(f), (g), & (h)	2,160	1,080	Extension for reply	within fifth month			
Enclosed is a Petition filed under 37 C	FR as indicated below:	790	395	Submission After F	Final 1.129	· ·		
Petition Fee under 37 CFR 1.17(f	Fee \$400	500	250	Notice of Appeal				
§ 1.57(a) to accord a filing date.	and the state of t	500	250	Filing a brief in sur	iling a brief in support of an appeal			
§ 1.182 for decision on a question r § 1.183 to suspend the rules.	·	1,000	500	Request for oral he	earing			
payment of maintenance fe	ion on petition refusing delayed e in expired patent.	130	65	Terminal Disclaime	er Fee			
§ 1.174(b) to accord a filing date to an of patent term.	application under §1.740 for extension	800	400	Design Issue Fee				
Petition Fee under 37 CFR 1.17(g	g) Fee \$200	790	395		Request for Continued Examination (RCE) Request for voluntary publication or republication Petition to Revive – unavoidable Petition to Revive – unintentional Filing for patent term adjustment Request for reinstatement of term reduced			
§ 1.12 for access to an assignm § 1.14 for access to an applicati § 1.47 for filing by other than all		130		Request for volunt				
§ 1.59 for expungement of inform	mation.	500	250	Petition to Revive				
	r ext. of time when §1.136(a) not avail.	1,500	750	Petition to Revive				
§ 1.296 to withdraw a req. for pub.	ish a statutory invention registration. after notice of intent to publish issued.	200		Filing for patent te				
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§ 1.550(c) for request for ext. of time	e in <u>ex parte</u> reexam. proceedings. e in <u>ex parte</u> reexam. proceedings.	1,120		Extension of term	of patent			
§ 5.12 for expedited handling of for § 5.15 for changing the scope of a	reign filing license.	OTHER	FEE					
§ 1.5.25 for retroactive license.	i licerise.	(specify)						
Petition Fee under 37 CFR 1.17(I § 1.19(g) to request documents in	n) Fee \$130 a form other than provided in this part.	Subtotal (Additional Fees)						
§ 1.84 for accepting color draw	ings or photographs.	Total Amount of Payment: \$180.00						
§ 1.91 for entry of a model or e § 1.102(d) to make an application s	special.			Total Amo	diff of Fayincine.	Ψ100.00		
§ 1.138(c) to expressly abandon ar § 1.313 to withdraw an application	n application to avoid publication. on from issue.							
§ 1.314 to defer issuance of a parameter by:	atent.							
CUSTOMER NUMBER	DORSEY & WHITNEY LLP	250 Park Avenue						
30873		New York, NY 10177						
Name: Gary Abelev, Esq.	Phone No.: 212-415-9371 Fax No.: 212-953-720				7201			
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